**How to build/compile python2 executable in CentOS7**

## Sample python script

[root@k8s-master python]# cat > example1.py << "#EOF"

import sys

import os

def mainProgram():

print("This is a test")

if \_\_name\_\_ == "\_\_main\_\_":

mainProgram()

#EOF

[root@k8s-master python]#

[root@k8s-master python]# python example1.py

This is a test

[root@k8s-master python]#

Install pyinstaller

## PyInstaller for python2

https://pypi.org/project/pyinstaller/2.0/#files

### Download pyinstaller 2.0

wget <https://files.pythonhosted.org/packages/ec/a3/dc7bc8c48a873c3156866df709a23078a6dda86db88328df5cf639385527/pyinstaller-2.0.tar.bz2>

bunzip2 pyinstaller-2.0.tar.bz2

tar xvf pyinstaller-2.0.tar

cd pyinstaller-2.0/

[root@buildserver pyinstaller-2.0]#

[root@buildserver pyinstaller-2.0]# ll

total 48

drwxr-xr-x. 8 admin admin 4096 Aug 8 2012 buildtests

drwxr-xr-x. 5 admin admin 4096 Aug 8 2012 doc

drwxr-xr-x. 4 admin admin 31 Aug 8 2012 e2etests

drwxr-xr-x. 2 admin admin 4096 Aug 8 2012 examples

-rw-r--r--. 1 root root 45 May 7 02:48 howto.txt

-rw-r--r--. 1 admin admin 18 Aug 8 2012 MANIFEST.in

drwxr-xr-x. 8 admin admin 4096 Aug 8 2012 PyInstaller

-rwxr-xr-x. 1 admin admin 3244 Aug 8 2012 pyinstaller-gui.py

-rwxr-xr-x. 1 admin admin 2718 Aug 8 2012 pyinstaller.py

-rw-r--r--. 1 admin admin 1741 Aug 8 2012 README.rst

-rw-r--r--. 1 admin admin 3778 Aug 8 2012 setup.py

drwxr-xr-x. 8 admin admin 4096 Aug 8 2012 source

drwxr-xr-x. 4 admin admin 101 Aug 8 2012 support

drwxr-xr-x. 2 admin admin 4096 Aug 8 2012 utils

[root@buildserver pyinstaller-2.0]#

#### python pyinstaller.py /path/to/yourscript.py

## Verify pyinstaller working

[root@buildserver pyinstaller-2.0]# ./pyinstaller.py -D -F -n example1 -c example1.py

10 INFO: wrote /root/pyinstaller-2.0/example1/example1.spec

43 INFO: UPX is not available.

1467 INFO: checking Analysis

1468 INFO: building Analysis because out00-Analysis.toc non existent

1468 INFO: running Analysis out00-Analysis.toc

1490 INFO: Analyzing /root/pyinstaller-2.0/support/\_pyi\_bootstrap.py

2837 INFO: Analyzing /root/pyinstaller-2.0/PyInstaller/loader/archive.py

2898 INFO: Analyzing /root/pyinstaller-2.0/PyInstaller/loader/carchive.py

2954 INFO: Analyzing /root/pyinstaller-2.0/PyInstaller/loader/iu.py

2977 INFO: Analyzing example1.py

3024 INFO: Hidden import 'encodings' has been found otherwise

3024 INFO: Looking for run-time hooks

3024 INFO: Analyzing rthook /root/pyinstaller-2.0/support/rthooks/pyi\_rth\_encodings.py

3393 INFO: Warnings written to /root/pyinstaller-2.0/example1/build/pyi.linux2/example1/warnexample1.txt

3397 INFO: checking PYZ

3397 INFO: rebuilding out00-PYZ.toc because out00-PYZ.pyz is missing

3397 INFO: building PYZ out00-PYZ.toc

4000 INFO: checking PKG

4000 INFO: rebuilding out00-PKG.toc because out00-PKG.pkg is missing

4000 INFO: building PKG out00-PKG.pkg

6171 INFO: checking EXE

6171 INFO: rebuilding out00-EXE.toc because example1 missing

6171 INFO: building EXE from out00-EXE.toc

6171 INFO: Appending archive to EXE /root/pyinstaller-2.0/example1/dist/example1

[root@buildserver pyinstaller-2.0]#

[root@buildserver dist]# /root/pyinstaller-2.0/example1/dist/example1

This is a test

[root@buildserver dist]#